

Datasheet for ABIN5510685

ACVRL1 ELISA Kit[Go to Product page](#)**1** Image

Overview

Quantity:	96 tests
Target:	ACVRL1
Binding Specificity:	AA 22-118
Reactivity:	Human
Method Type:	Sandwich ELISA
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human ALK-1/ACVRL1
Brand:	PicoKine™
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	Expression system for standard: NSO Immunogen sequence: D22-Q118
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

Target Details

Target:	ACVRL1
Alternative Name:	ACVRL1 (ACVRL1 Products)
Background:	Protein Function: Type I receptor for TGF-beta family ligands BMP9/GDF2 and BMP10 and

Target Details

important regulator of normal blood vessel development. On ligand binding, forms a receptor complex consisting of two type II and two type I transmembrane serine/threonine kinases. Type II receptors phosphorylate and activate type I receptors which autophosphorylate, then bind and activate SMAD transcriptional regulators. May bind activin as well. .

Background: Serine/threonine-protein kinase receptor R3 is an enzyme that in humans is encoded by the ACVRL1 gene. It is also known as activin receptor-like kinase 1, or ALK1. This gene encodes a type I cell-surface receptor for the TGF-beta superfamily of ligands. It shares with other type I receptors a high degree of similarity in serine-threonine kinase subdomains, a glycine- and serine-rich region (called the GS domain) preceding the kinase domain, and a short C-terminal tail. The encoded protein shares similar domain structures with other closely related ALK or activin receptor-like kinase proteins that form a subfamily of receptor serine/threonine kinases. Mutations in this gene are associated with hemorrhagic telangiectasia type 2, also known as Rendu-Osler-Weber syndrome 2.

Synonyms: Serine/threonine-protein kinase receptor R3,SKR3,2.7.11.30,Activin receptor-like kinase 1,ALK-1,TGF-B superfamily receptor type I,TSR-I,ACVRL1,ACVRLK1, ALK1,

Full Gene Name: Serine/threonine-protein kinase receptor R3

Cellular Localisation: Cell membrane, Single-pass type I membrane protein.

UniProt: [P37023](#)

Application Details

Plate: Pre-coated

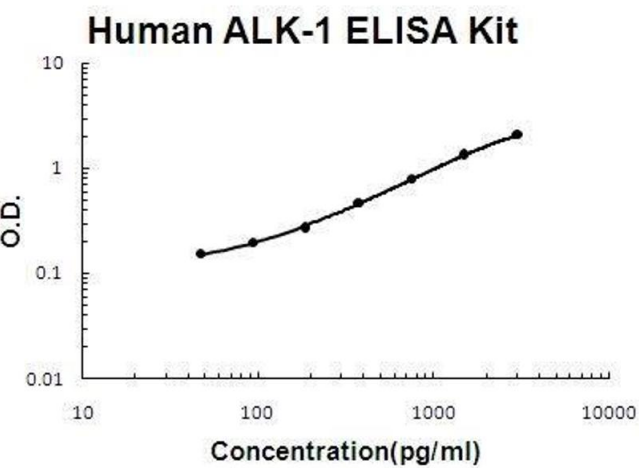
Restrictions: For Research Use only

Handling

Storage: 4 °C,-20 °C

Storage Comment: Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles(Shipped with wet ice.)

Expiry Date: 12 months



ELISA

Image 1. Human ALK-1/ACVRL1 PicoKine ELISA Kit standard curve